Title (en)

Video signal processing apparatus

Title (de)

Videosignalverarbeitungsgerät

Title (fr)

Appareil de traitement de signaux video

Publication

EP 1434425 A3 20060426 (EN)

Application

EP 03256525 A 20031016

Priority

- JP 2002374819 A 20021225
- JP 2002374836 A 20021225

Abstract (en)

[origin: EP1434425A2] The contour correction processing of a still picture that can suppress the generation of a black edge due to an undershoot in a contour portion is enabled while increasing a feeling for resolution. Moreover, an interpolation device that improves the sharpness of a digital picture is provided without increasing a circuit scale. A digital video signal (S 1) from an input terminal (6) is supplied to a selection means (5) after a contour to which an undershoot and an overshoot were added was corrected by a contour correction means (1). Moreover, this digital video signal (S 1) is supplied to an edge detection means (2) and the edge period is detected. An edge generation means (3) generates an edge signal (S E) based on the detected edge period, the digital video signal (S 1). and an edge coefficient (K), and mixes it with a digital video signal (S 2) output from the contour correction means (1) at a predetermined ratio. Accordingly, a digital video signal (S3) in which the undershoot in the edge period was suppressed is obtained. The selection means (5) substitutes it for the edge period of the digital video signal (S 2) from the contour correction means (1) and a digital video signal (S E) from a mixing means (4). Moreover, the digital video signal (S 2) output from a memory means (3) is supplied to the interpolation means (5). and the linear interpolation of a sample is performed. At the same time, an edge generation means (6) generates the edge signal (S E) in the period at which an edge detection means (7) detected the edge of the digital video signal (S 2). and a mixing means (9) mixes this edge signal (S E) and the digital video signal (S 3) from the interpolation means (7) and selects the digital video signal (S 3) from the interpolation means (5) in other periods.

IPC 8 full level

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CPC (source: EP KR US)

G06T 5/73 (2024.01 - EP US); G06T 7/13 (2016.12 - EP US); H04N 1/4092 (2013.01 - EP US); H04N 5/142 (2013.01 - EP US); H04N 5/208 (2013.01 - KR); G06T 2207/10016 (2013.01 - EP US); G06T 2207/20192 (2013.01 - EP US)

Citation (search report)

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- [A] US 4541014 A 19850910 YAGI YASUO [JP]
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CN105450908A

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**EP 1434425 A2 20040630**; **EP 1434425 A3 20060426**; KR 100597918 B1 20060710; KR 20040058006 A 20040702; US 2004207758 A1 20041021; US 7304672 B2 20071204

DOCDB simple family (application)

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